

WHAT IS CLAIMED IS:

- Sub 17
- 5 1. An implantable tubular device formed substantially tubular and having a deformable portion formed on a peripheral surface thereof, with said deformable portion forming a predetermined angle with respect to an axial direction of said device and being easy to deform in comparison with a remainder part of said device.
- 10 2. An implantable device according to claim 1, wherein said device has a diameter so set that said device can be inserted into a lumen in a human body and capable of dilating radially upon application of a force acting radially outwardly from an interior of said tubular body,
- 15 said device comprising:
a plurality of wavy annular members each formed of a wavy element and arranged in an axial direction of said device; and
connection portions each connecting said wavy annular members to each other in the axial direction of said device;
- 20 wherein each of said wavy annular members has said deformable portion formed on a bent portion thereof not connected to the other wavy annular members in such a way that said deformable portion crosses said wavy annular member.
- 25 3. An implantable device according to claim 1, wherein said deformable portion consists of a groove formed on an inner surface of said device or on an outer surface thereof or on both said inner and outer surfaces thereof.
- 30 4. An implantable device according to claim 3, wherein a depth of said groove is set to 5 - 50% of a thickness of said device.

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Sub 27 5. An implantable device according to claim 1, wherein said deformable portion forms 20 - 90° with the axial direction of said device.

5 6. An implantable device according to claim 1, wherein said deformable portion is formed in a plural number; and so formed that when said deformable portion is prolonged, said deformable portion continuously goes around a periphery of said device.

10 7. An implantable device according to claim 1, wherein said deformable portion is so formed that when said deformable portion is prolonged, a spiral is formed on the periphery of said device.

15 8. An implantable device according to claim 1, wherein said deformable portion is formed entirely on said device.

Sub 37 9. An implantable device according to claim 1, wherein said deformable portion is formed in a plural number and an interval
20 between said deformable portions in the axial direction of said device is 0.01 - 1mm.

10. An implantable device according to claim 1, wherein said device consists of a stent or a stent graft.

25 Sub 47 11. An implantable device according to claim 1, wherein said device is formed by the step of forming a spiral deformable portion-provided tubular body by connecting axially adjacent coiled wire members to each other directly or indirectly and the step of
30 removing a portion of said tubular body other than a portion thereof

which is to be formed as said device.

12. An implantable device according to claim 1, wherein said device is formed by the step of forming an annular deformable portions-provided tubular body by directly or indirectly connecting
5 ring members so disposed parallel to each other as to form a cylindrical shape and the step of removing a portion of said tubular body other than a portion thereof which is to be formed as said device.

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13. An implantable device according to claim 3, wherein a depth of said groove is set to 1 - 99% of a thickness of said device.

14. An implantable device according to claim 1, wherein said
15 device carries a medicine, a bioprosthetic material or a biosynthesis material.

15. An implantable device according to claim 1, wherein at least one part of the outer surface of said device is coated with a coating
20 material made of a biocompatible material, a biodegradable material or a synthetic resin.

Subas 16. An implantable device according to claim 1, wherein at least one part of an outer surface of said deformable portion is coated
25 with a coating material made of a biocompatible material, a biodegradable material or a synthetic resin.

17. An implantable device according to claim 15, wherein said coating material carries a medicine, a bioprosthetic material or a
30 biosynthesis material.

18. An implantable device according to claim 15, wherein said coating material is formed of a biodegradable material to which a medicine, a bioprosthetic material or a biosynthesis material is added.

19. An implantable device according to claim 14, wherein said medicine contains at least one pharmaceutical selected from the group consisting of a medicine for preventing intimal hyperplasia, a carcinostatic agent, an immunosuppressor, an antibiotic, an antirheumatic, an antithrombotic drug, HMG-CoA reductase inhibitor, an ACE inhibitor, a calcium antagonist, an anti-hyperlipidemia agent, anti-inflammatory agent, an integrins inhibitor, an antiallergic agent, an antioxidant, a GP II b III a antagonist, retinoids, flavonoids, carotenoids, a lipid-improving agent, a DNA-synthesis inhibitor, a tyrosine kinase inhibitor, an antiplatelet agent, a vascular smooth muscle cell proliferation inhibitor, an anti-inflammatory agent, a bioprosthetic material and interferon.

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